



## Rick Hance Engineering Note

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**Project:** General Support  
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**Subject:** Installing LATTICE PLD Design Tools Software

LATTICE ispDesignExpert HDL Base software is available to all PPD/EED Engineers and Technicians as networked software. Our "basic" package includes ispDesignExpert, Synplicity Synplify, Exemplar LeonardoSpectrum, Model Technology ModelSim, ispGDX Development System, and ispVMSsystem. The following procedure describes how to install or update the software on your Windows NT workstation<sup>1</sup>. Once the software is installed, it will reside and run on your workstation; but will seek "permission" to run each time from the "key server" software located on a PPD computer. This will be transparent to you. There are presently four software licenses "floating". Thus, up to four people may use the software simultaneously at any given time. Incredibly, 900MB of disk space will be required on a FAT16 file system, 450MB on FAT32, or 350MB on an NT file system. Follows these instructions carefully for a trouble free installation:

1. Log into your NT workstation in the **FNAL** domain. You must have administrator privileges on your computer.
2. Turn off virus checking.
3. If updating, then use **Start>Settings>Control Panel>Add/Remove Programs** to uninstall the earlier version. Your projects will not be affected; but you may want to back them up first just in case.
4. Locate **ppdserver** (you must use **Start>Find>Computer>ppdserver**). Double click on **ppdserver** and browse to **\\ppdserver\EED.PPD\Project\ESCAD\Install\_Area\Lattice**.
5. Double click into the highest version folder and run the setup program by double-clicking on **"Setup.exe"**.
6. In response to the **"Lattice Semiconductor Setup Program"** initial screen, select **"Install Lattice Software"**.
7. In response to the **"Product to Install"** screen, verify that only **"DE HDL BASE"** is selected, then select **"Next"**.
8. In response to the **"Welcome to Lattice Semiconductor Setup"** dialog box, select **"Next"**.
9. In response to the **"Software License Agreement"** dialog box, select **"Yes"**.
10. In response to the **"Choose Destination Location"** dialog box, accept the default directory, or enter the directory path on your machine where you want the software installed. Then select **"Next"**.
11. In response to the **"Product Options"** dialog box, verify that all boxes are checked, then select **"Next"**.
12. In response to the **"Select Program Folder"** dialog box, select **"Next"**.
13. In response to the **"Start Copying Files"** dialog box, select **"Next"** and wait for copying to complete.
14. In response to the **"Exemplar Leonardo Spectrum User Information"** Dialog box, enter your name in the **"Name"** box and **"Fermilab"** in the **"Company"** box, then select **"Next"**.
15. In response to the **"ispVMSsystem Download Drivers for Windows NT"** dialog box, select **"Yes"** if you are installing to Windows NT.
16. In response to the **"L isp WinNT Driver"** dialog box, select **"Install"**.
17. In response to the **"Confirm VMSsystem Download Driver Installation"** dialog box, select **"Ok"**.
18. In response to the **"Restart your System on Setup Completion"** dialog box, select **"Next"** (the environment variable check will be covered later).
19. In response to the **"Setup Complete"** dialog box, select **"Finish"**.
20. Install the licensing socket number into your environment as follows:
  - Open the **"Environment Variables Control Panel"** as follows: **Start>Settings>Control Panel>System>Environment**
  - Select the **"LM\_LICENSE\_FILE"** variable.
  - Examine the contents of the **"Value"** window and modify it eliminate the references to local Lattice directories such as **"e:\ispTOOLS\ispcomp\license\license.dat"**. Then add **7788@acme** for a system that uses only Lattice. If you also have other applications that need LM\_LICENSE\_FILE (such as Orcad), then the **"Value"** window should end up containing **7788@acme;2200@acme** etc. Example: If you only have Lattice and Orcad, the **"Value"** window will contain only **7788@acme;2200@acme**. Then Select **"Ok"** to close the window.
21. Close all programs and reboot the computer.

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<sup>1</sup> The Lattice installation manual specifies that the software will work with Windows 95, 98, NT 4.0, and Windows 2000; but I have only tested installation on Windows NT. This note assumes Windows NT.